

"
S.S. CITY OF MANCHESTER."
"

LONGITUDINAL
SECTION

S. S. *City of Manchester*

LIVERPOOL

Report No. *105830*

W156-0179



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W156-0177

CONSTRUCTIONAL DECK PLAN

S.S. *City of Manchester*
LIVERPOOL.

Report No. *105830*

Ym Beams



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No. 1005. FOR BEAM SCANTLINGS ONLY -
CONSTRUCTIONAL DECK PLAN.
SCALE - $\frac{1}{8}'' = 1 \text{ FOOT}$.

CONSTRUCTIONAL
DECK PLAN

S. S. *City of Manchester*

LIVERPOOL

Report No. *105830*

W156-0178



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No. 1005.
CONSTRUCTION DECK PLAN.
SCALE - 1/8" = 1 FOOT.

11/10/34

DIMENSIONS -
435'-0" B.P. x 64'-0" B.M.L. x 42'-3" D.M.S. TO UPPER DK.
33'-0" 2ND DK.

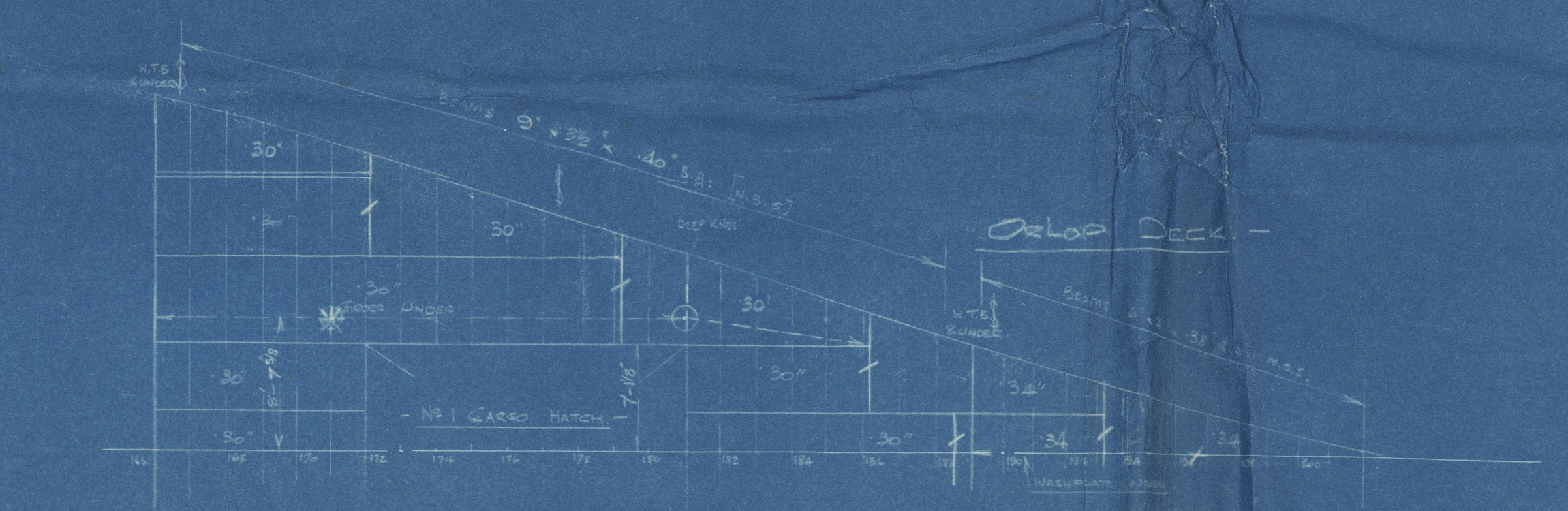
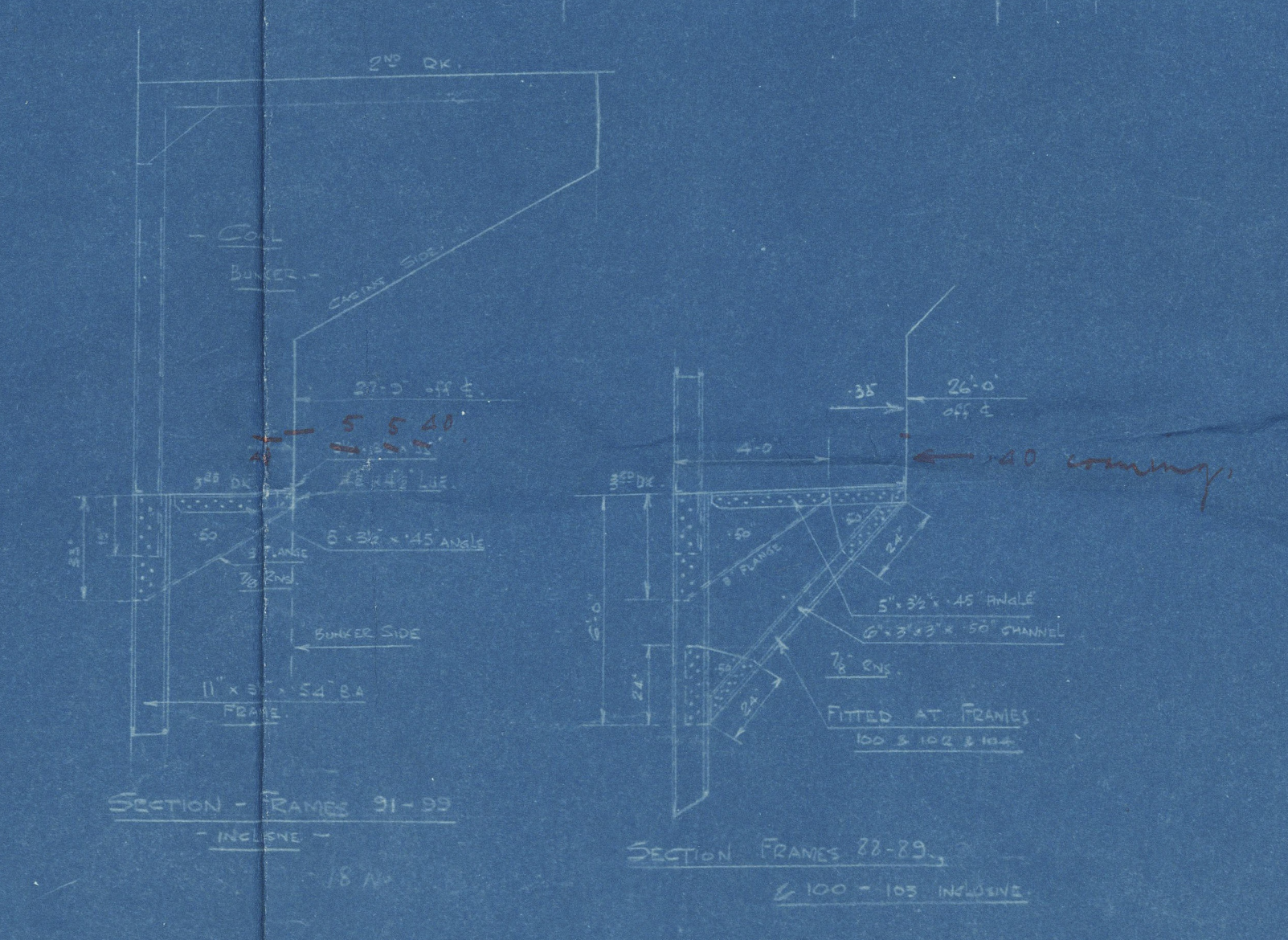
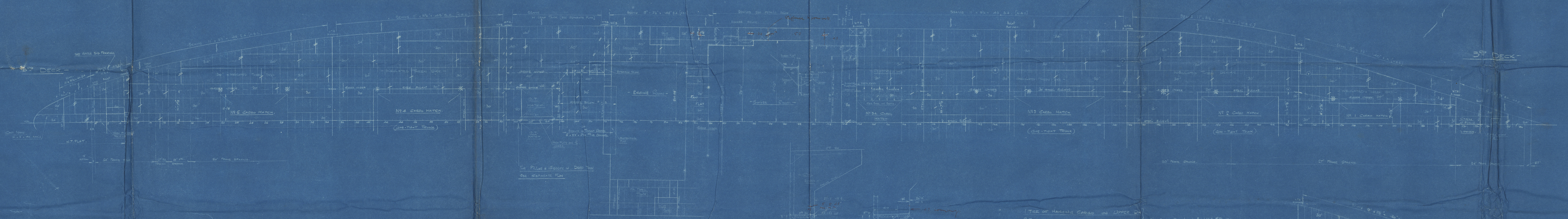
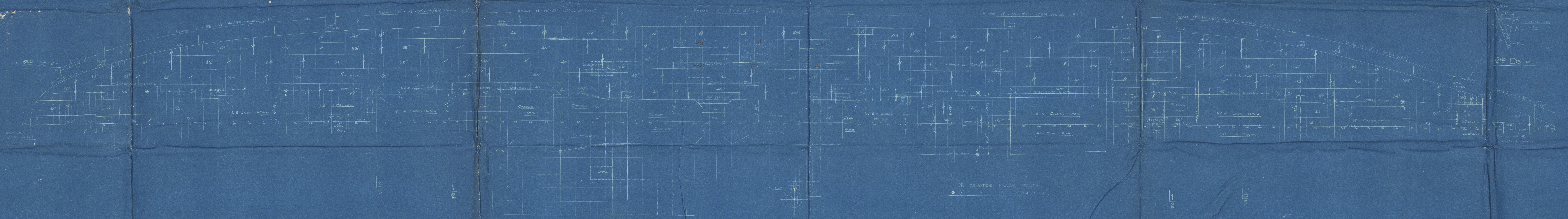
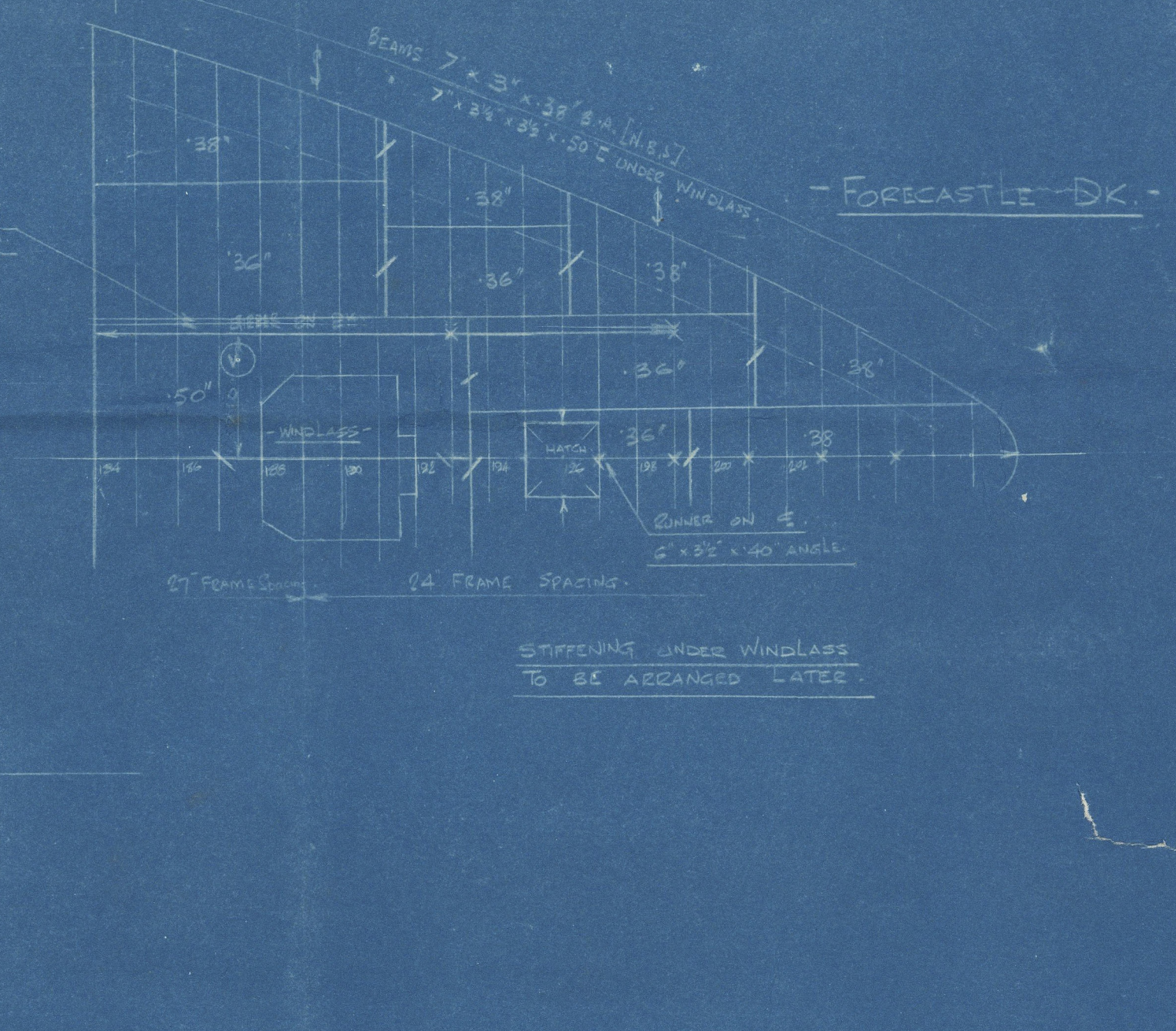
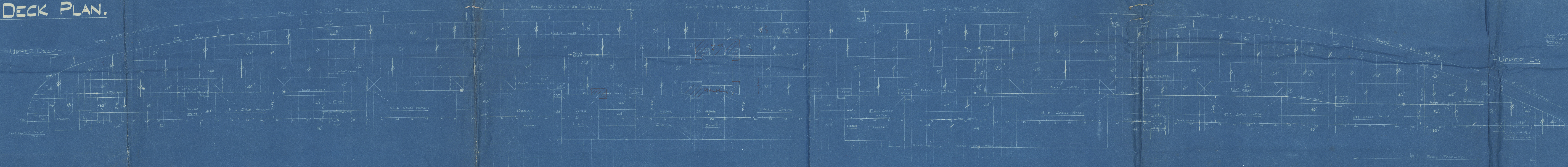
CAMBER -
UPPER DECK & 2ND DECK - 16" IN 64'-0"
3RD DECK & 4TH DECK - 12" IN 64'-0"

FORWARDED BY
SHIP DEPARTMENT

TN 8

11/10/34

DOUBLE CONNECTION BEAM TO DECK
DOUBLE ANGLE CONNECTION BRIDGE CAME TO DECK PLATING
WELDS ARE TO BE MADE TO BRIDGE PLATING



MIDSHIP SECTION

S. S. *City of Manchester*

LIVERPOOL

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MIDSHIP SECTION.

DIMEN^S = 485'-0"BP x 64'-0"MLD x 42'-3"MLD TO UPPER DECK,
33'-9"MLD TO 2ND DECK.

RIVETING.

NUMERALS.

EQUIPMENT.

DETAIL OF BRACKET FLOOR.

W156-0176

Plan of Main Boilers No 1005
S. S. City of Manchester

S. S. City of Manchester

LIVERPOOL

Report No. 105830



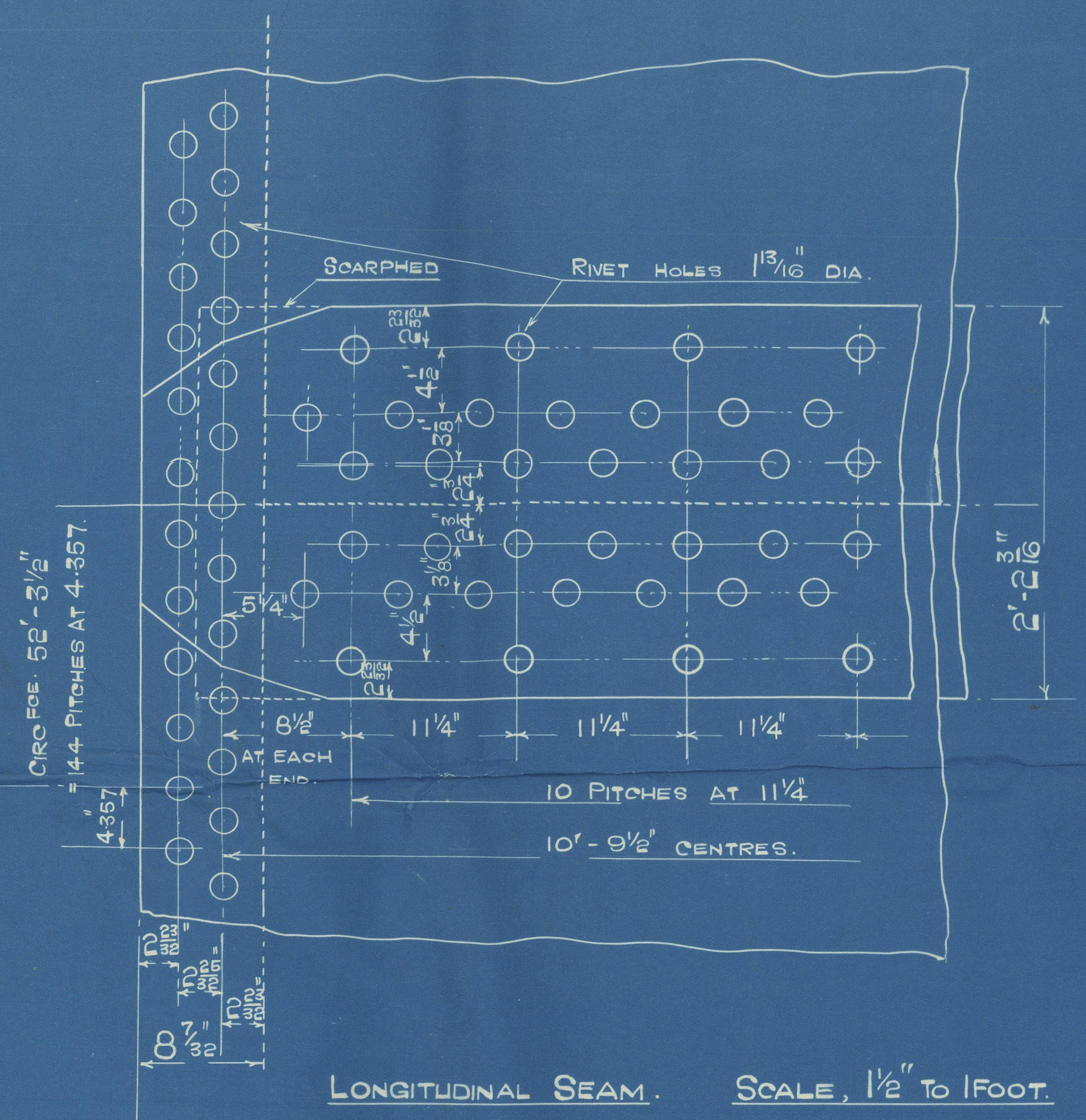
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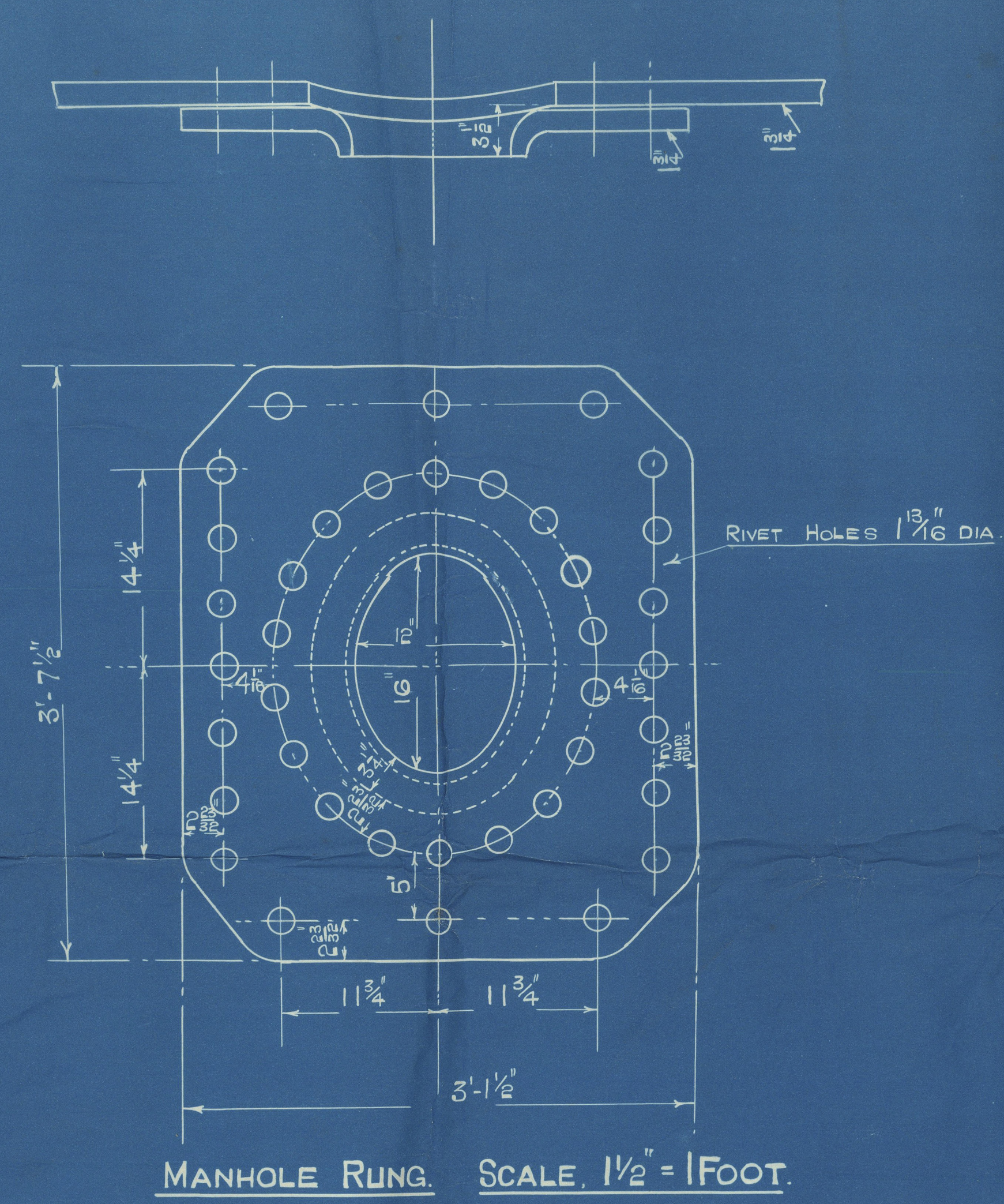
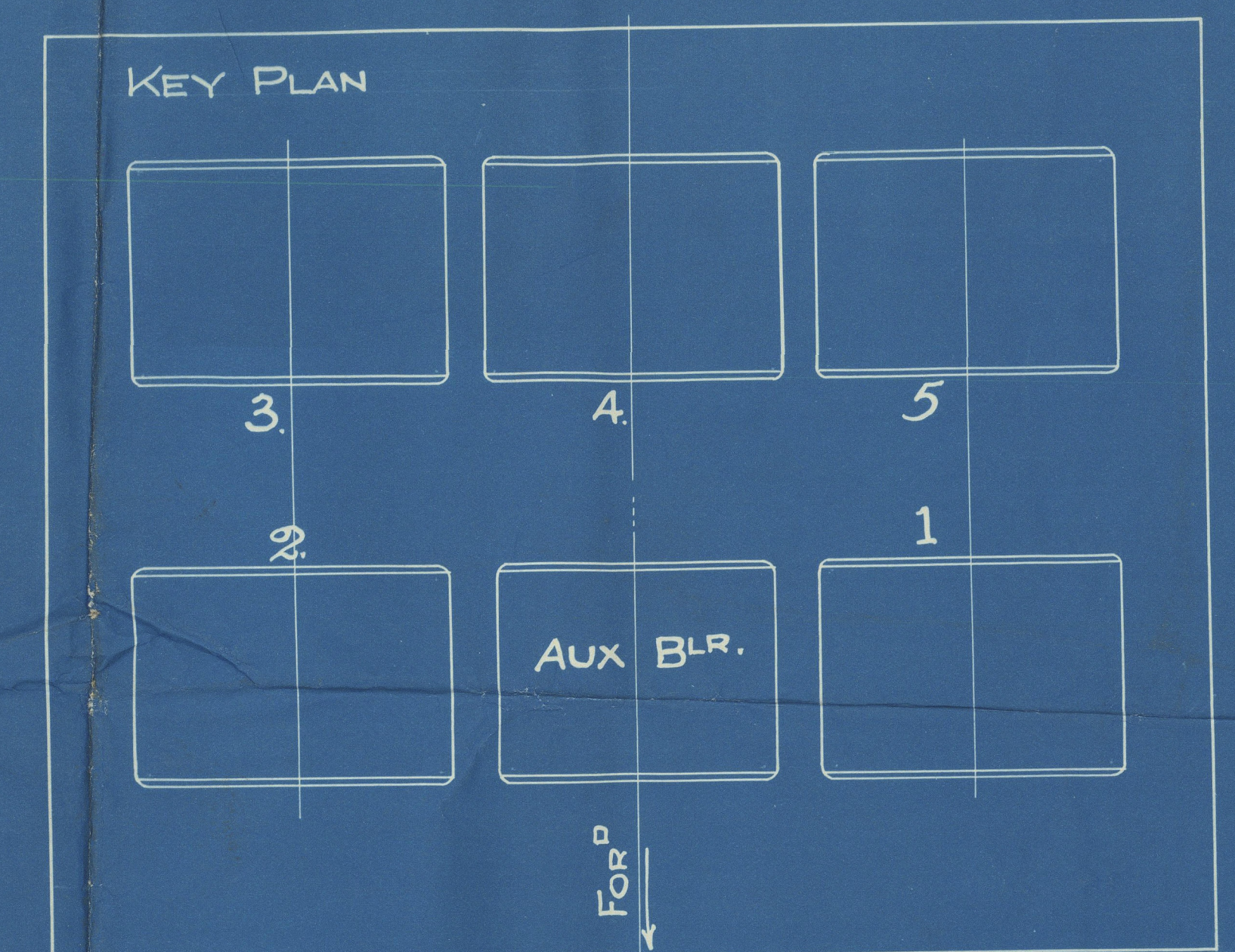
BOILERS N^o. 1005.
5 MAIN BOILERS.

HEATING SURFACE OF TUBES 2590
" " " FURNACES ETC 550
TOTAL 3140 x 5 = 15700 SQ. FT.
GRATE AREA 5'-6" BARS 72 SQ. FT. x 5 = 360 SQ. FT.
WORKING PRESSURE 275 LBS. PER SQ. INCH.
TEST " 462 1/2 " " " "
TO BE TO THE REQUIREMENTS, TESTS & SURVEY OF LLOYDS.
THE DESIGN TO BE APPROVED BY BOARD OF TRADE.

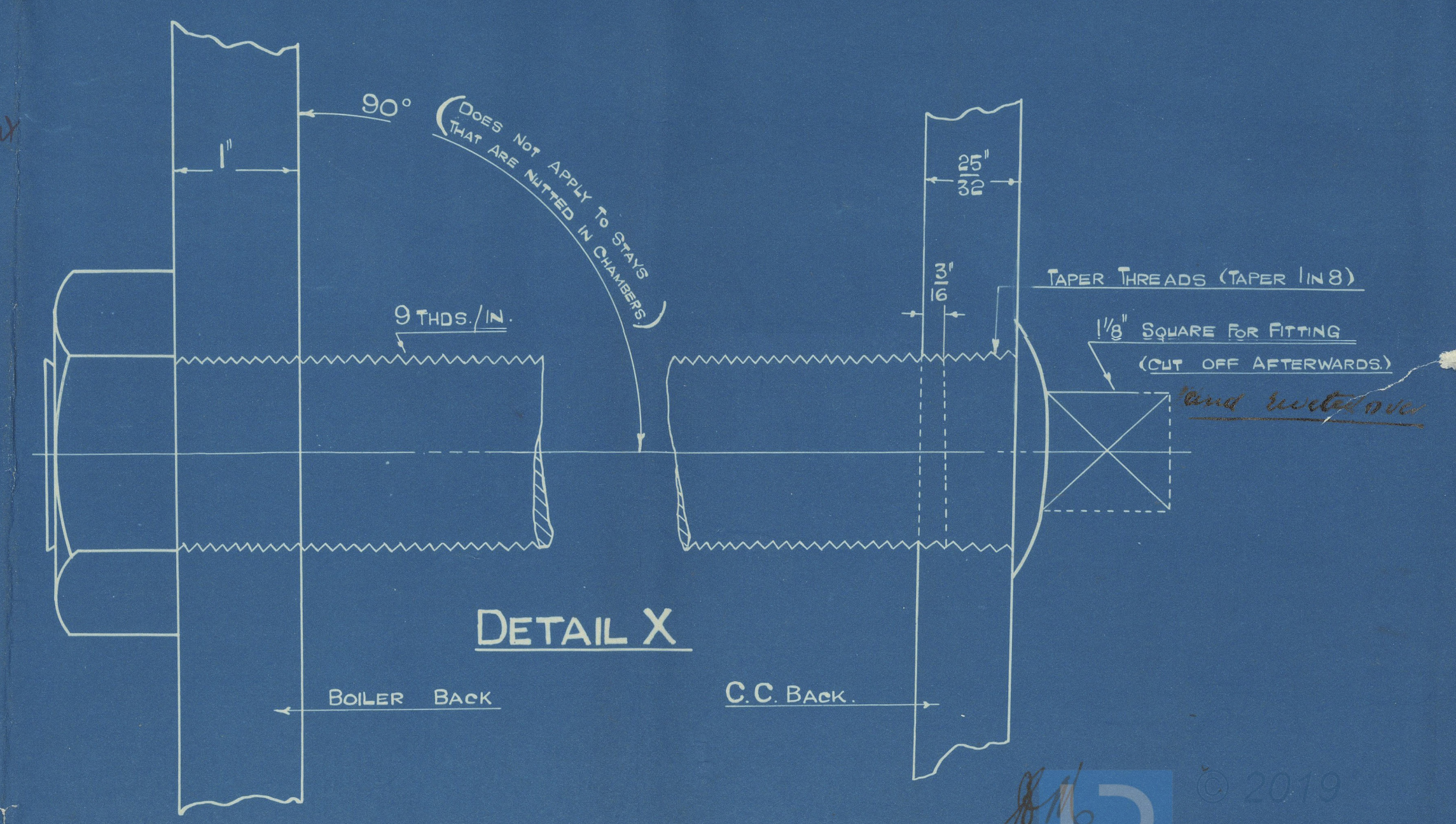
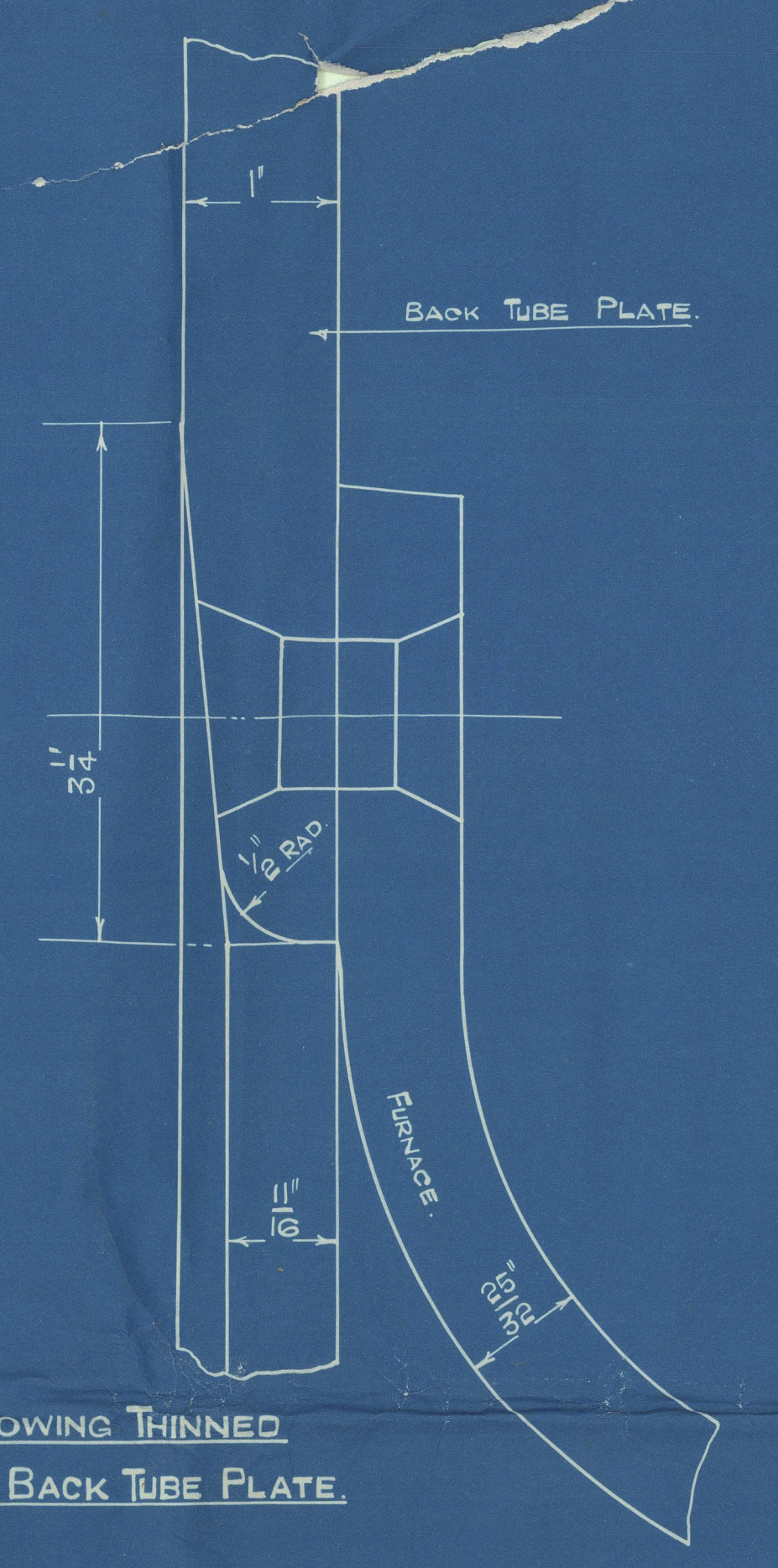
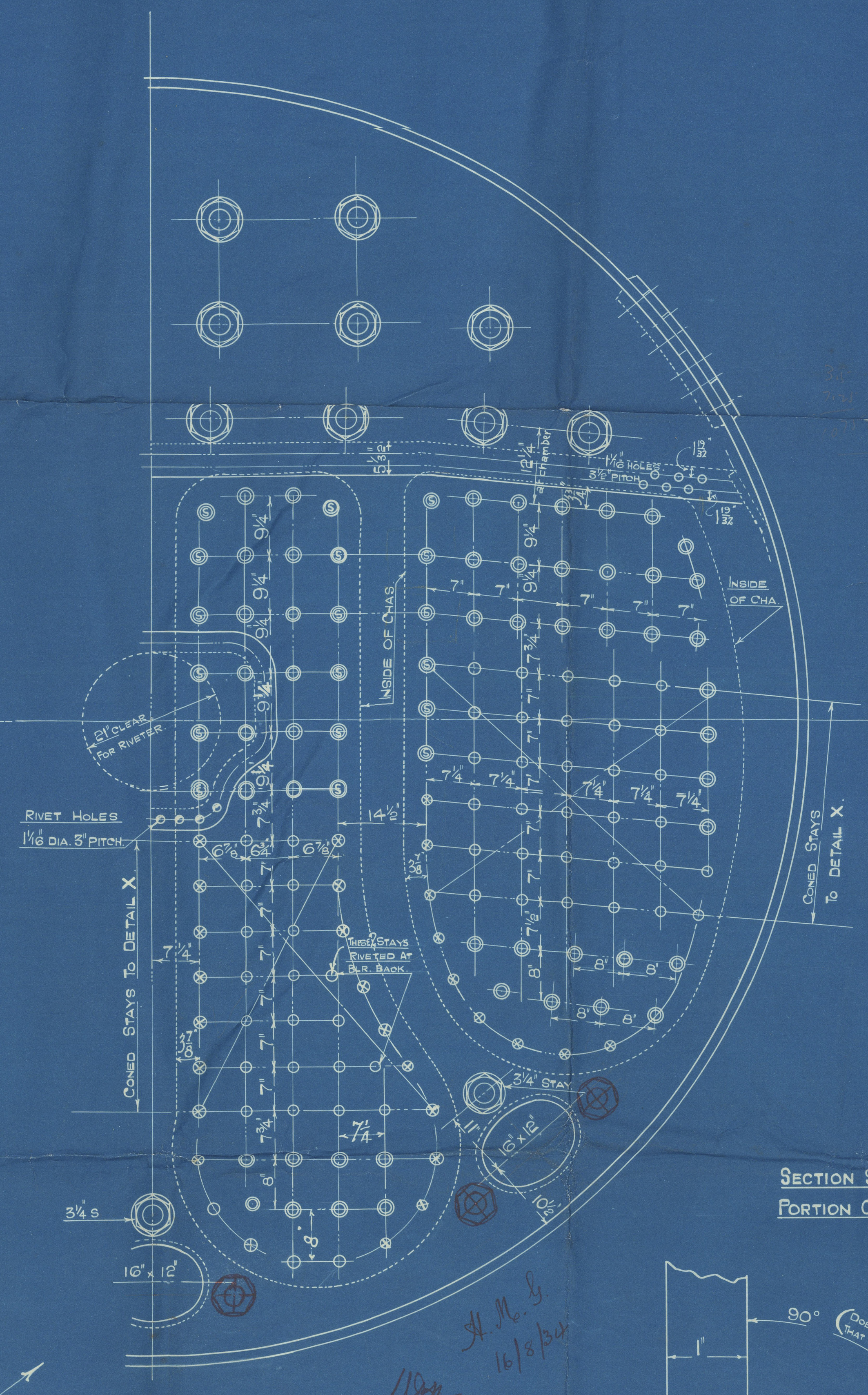
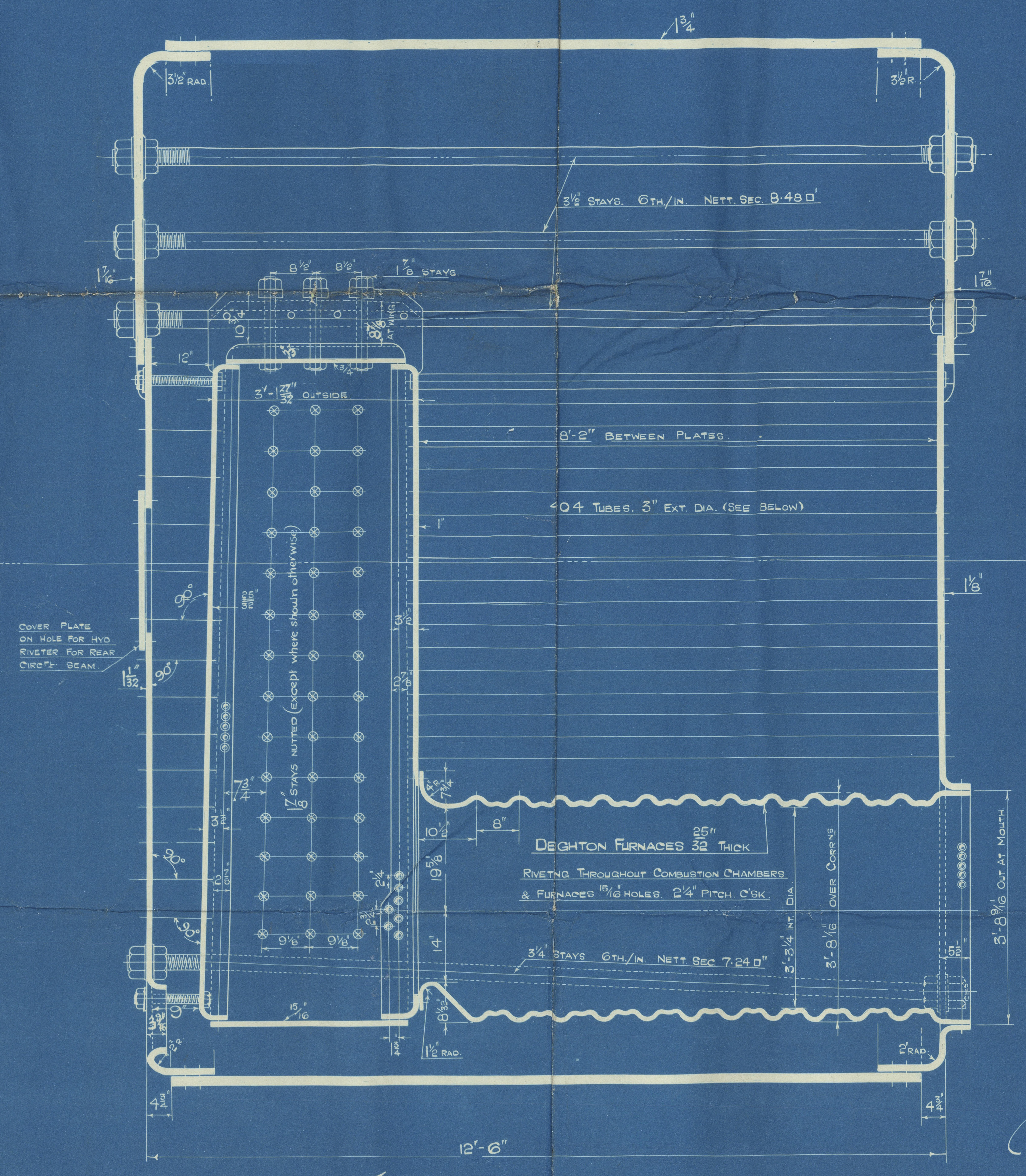
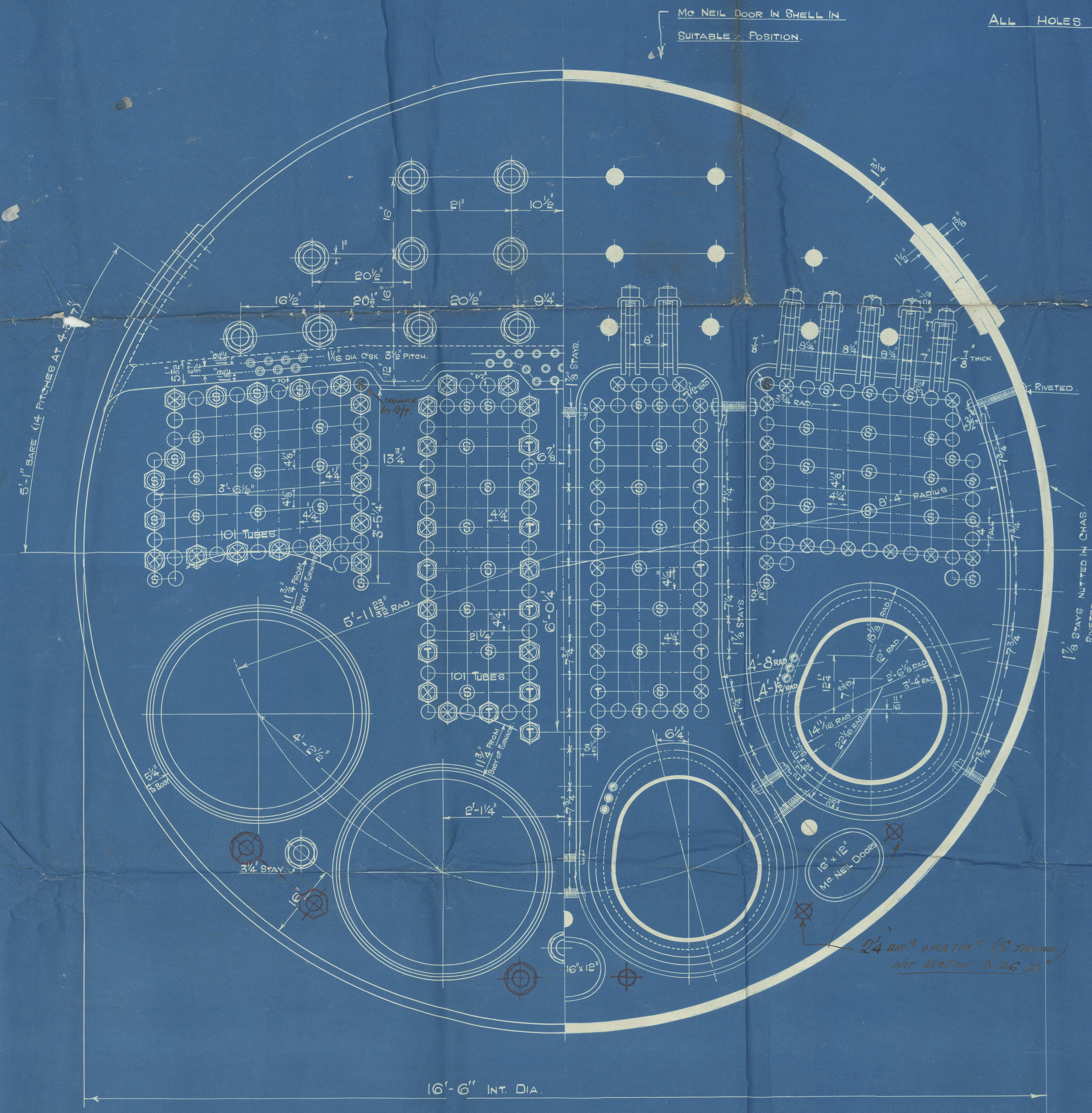
*Approval noted
with additional stays*



LONGITUDINAL SEAM. SCALE 1 1/2" = 1 FOOT.
PLATE 83.8%
RIVETS 83.1%
COMB: 84.37%
ALL HOLES DRILLED IN PLACE.



MANHOLE RING. SCALE 1 1/2" = 1 FOOT.



| MATERIAL FOR | OF | TENSILE STRENGTH |
|-------------------------------|-------|----------------------|
| SHELL STRAPS. | STEEL | 34 TO 36 TONS PER D" |
| FURNACES, COMBUSTION CHAMBERS | " | 26 " 30 " " " |
| MANHOLE RING, END PLATES | " | 26 " 30 " " " |
| MAIN STAYS, GIRDERS | " | 28 " 32 " " " |
| COMBUSTION CHA. STAYS. | " | 26 " 30 " " " |
| RIVET BARS. | " | 26 " " " " " |
| TUBES. | IRON. | " " " " " " |

TUBES OF LAP-WELDED IRON. 3" EXT DIA. (404 TOTAL PER BOILER)
PLAIN TUBES 3" EXT DIA. (3 3/8" AT FRONT ENDS) x NO. 7 W.G.
STAY " 3" " " FRONT ENDS SWELLED TO 3 1/4" EXT DIA.
BOTH ENDS SREWED 9 THREADS / INCH. CONTINUOUS THREADS.
MARKED THUS S TO BE 3/8 THICK NETT SECTION 2.447 D"
" " X " 7/16 " " " 2.8673 D"
" " T " 1/2 " " " 3.2723 D"
BACK ENDS OF ALL TUBES TO BE BEADED OVER.

COMBUSTION CHA. STAYS. 9 THDS / IN. SREWED INTO PLATES.
& NUTTED EACH END EXCEPT WHERE CONED (SEE DETAIL X) OR NOTED
STAYS MARKED THUS O TO BE 1 3/8 DIA. NETT SECT. 1.73 D"
" " " 1 3/4 " " " 2.03 "
" " " 1 7/8 " " " 2.36 "
" " " 2 1/8 " " " 3.09 "

SCALE - 1" = 1 FOOT.

W156-0180

Auxil' boiler plan h7005

City of Manchester

S. S. City of Manchester
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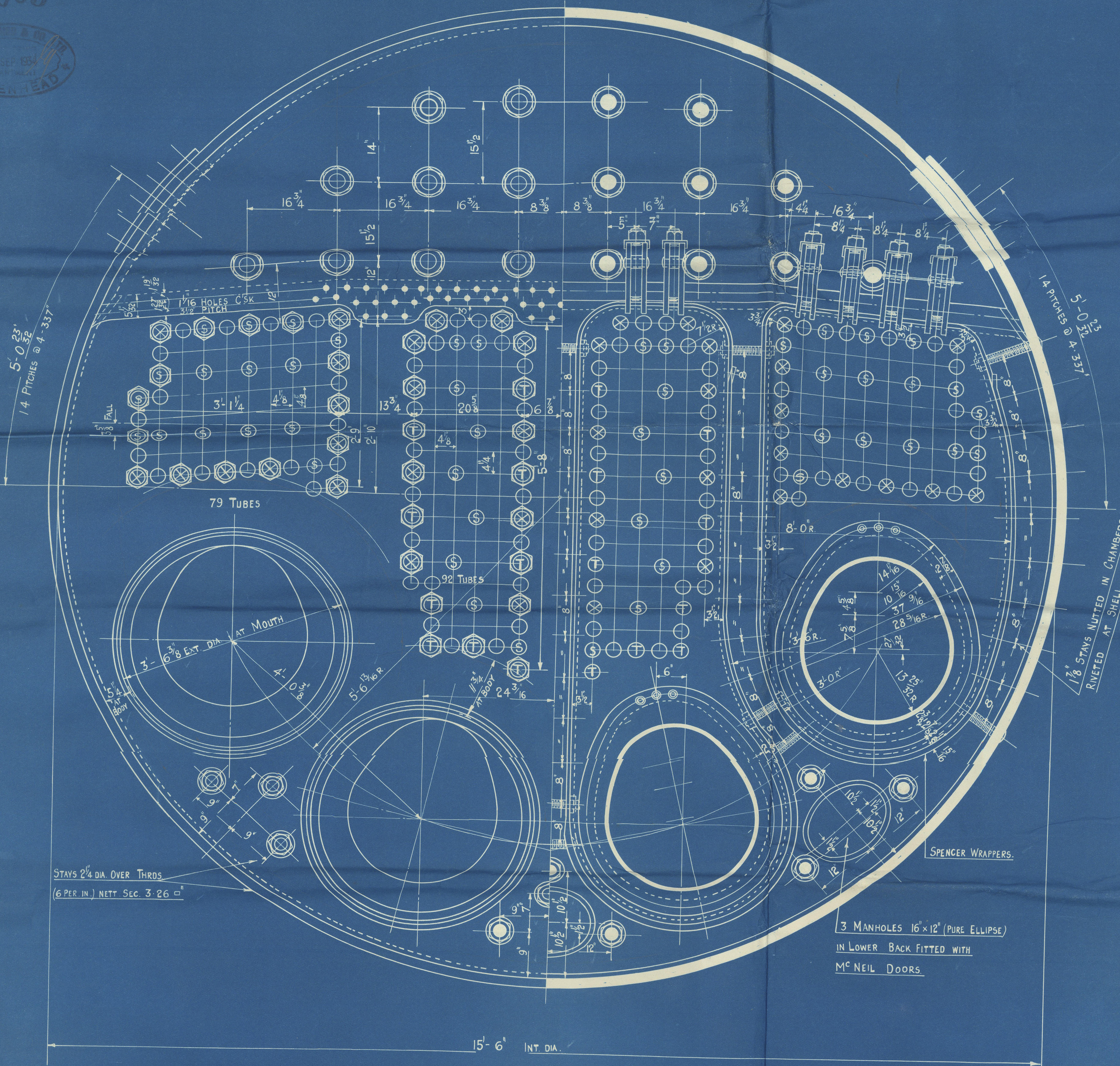
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ONE AUXILIARY BOILER.

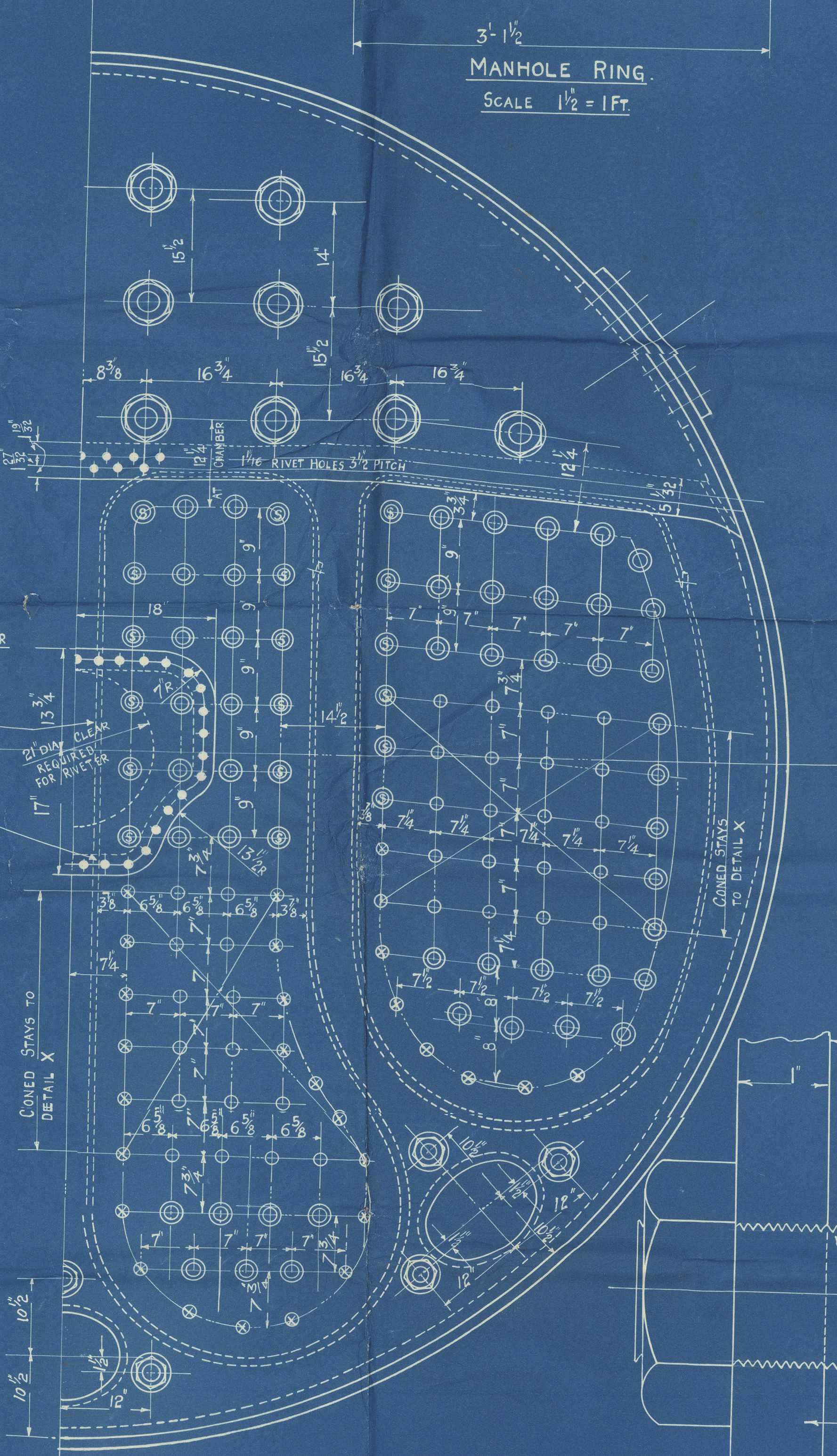
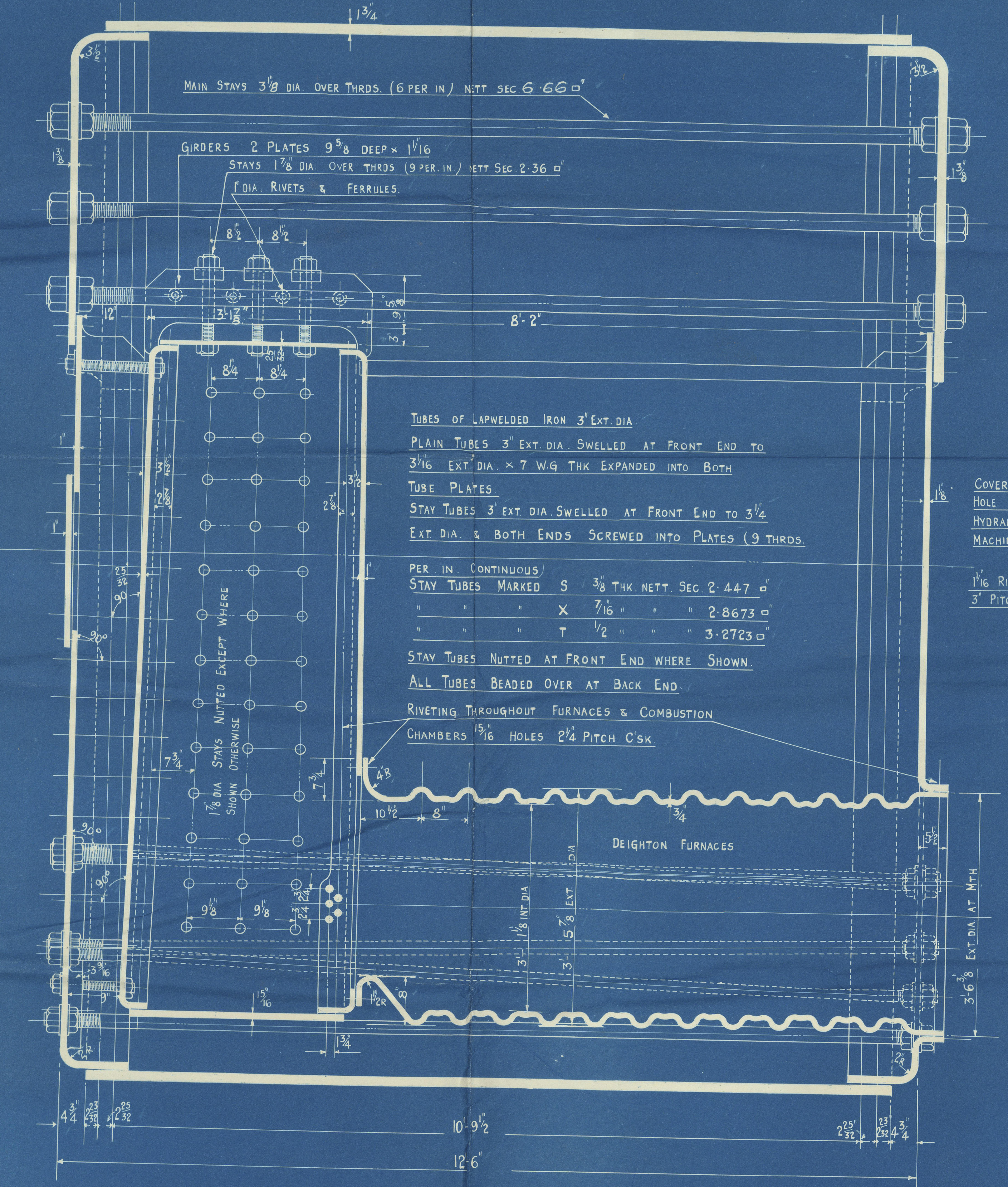
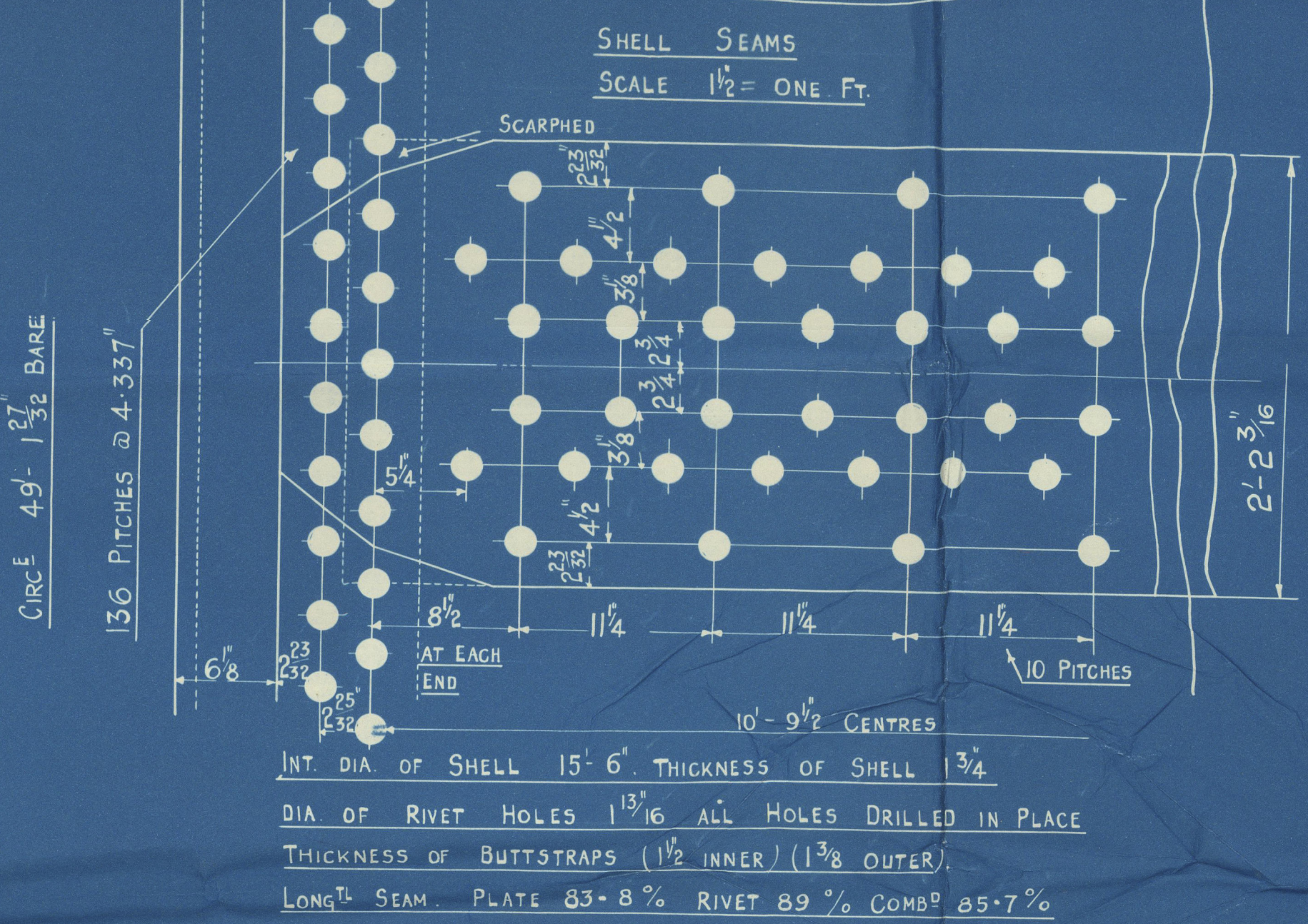
342 B.B. IRON TUBES 3' EXT. DIA. (INCLUDING 106 STAY TUBES)
HEATING SURFACE OF TUBES = 2195 SQ. FT.
" " FURNACES ETC = 530 " "
" " TOTAL = 2725 " "
TOTAL GRATE AREA (5'-0" BARS) = 62 " "
WORKING PRESSURE 275 LBS PER SQ. IN.
TEST " 462 1/2 " "

TO BE TO THE REQUIREMENTS, TESTS & SURVEY OF LLOYDS'
THE DESIGN TO BE APPROVED BY BOARD OF TRADE.

MANHOLE IN SHELL 16"x12" (PURE ELLIPSE)
FITTED WITH COMPENSATING RING &
MCNEIL DOOR.



| FOR | MATERIAL | OF | T.S. TONS/IN ² |
|--------------------------------|----------|-------|---------------------------|
| SHELL & STRAPS | STEEL | 32-36 | |
| FURNACES & COMBUSTION CHAMBERS | " | 26-30 | |
| MANHOLE RING & END PLATES | " | 26-30 | |
| MAIN STAYS & GIRDERS | " | 28-32 | |
| COMBUSTION CHAMBER STAYS | " | 26-30 | |
| RIVET BARS | " | 26-30 | |
| TUBES | IRON | | |



SECTION SHOWING THINNED PORTION OF BACK TUBE PLATE.

DETAIL X.

COMBUSTION CHAMBER STAYS SCREWED INTO PLATES 9 THRS PER IN.
CONTINUOUS & NUTTED EACH END EXCEPT WHERE CONED (SEE DETAIL X) OR OTHERWISE SHOWN.
STAYS MARKED ○ 1 5/8" DIA. OVER THRS. NETT. SEC. 1.73 □"
" " ○ 1 3/4 " " " " " " 2.03 □"
" " ○ 1 1/2 " " " " " " 2.36 □"
" " ○ 2 1/2 " " " " " " 3.09 □"

Handwritten notes and signatures, including "J.M.B.", "11/19/34", and "11/24/34".

